

(12) PATENT APPLICATION

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(19) AUSTRALIAN PATENT OFFICE

(54) Title
Improvements relating to gutter suspension means

(51) International Patent Classification(s)
E04D 013/06

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(71) Applicant(s)
Cowells Group Limited

(54) Inventor(s)
Slavek Pacan

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APPLICATION FOR A STANDARD PATENT

We COWELLS GROUP LIMITED, a company incorporated under the laws of the State of South Australia and whose registered office is situate at Eastern Parade, Gillman, State of South Australia, Commonwealth of Australia

hereby apply for the grant of a Standard Patent for an invention entitled
~~Patent of Addition~~

"IMPROVEMENTS RELATING TO GUTTER SUSPENSION MEANS"

which is described in the accompanying ~~provisional~~
~~complete~~ specification.

For a Convention application — details of basic application(s) —

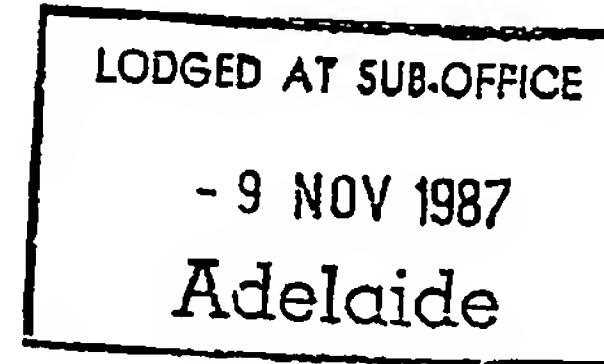
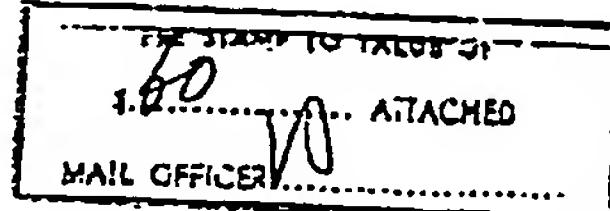
NUMBER	COUNTRY	DATE OF APPLICATION
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My address for service is COLLISON & CO., Patent Attorneys, 117 King William Street, Adelaide, South Australia, 5000.

Dated this 9th day of November 1987

COWELLS GROUP LIMITED,
By their Patent Attorneys,
COLLISON & CO.

H.K.SCHUBZE
Attorney for the Applicant



To:

THE COMMISSIONER OF PATENTS

COMMONWEALTH OF AUSTRALIA
Patents Act 1952

**DECLARATION IN SUPPORT OF AN APPLICATION FOR A PATENT OR
PATENT OF ADDITION**

INSTRUCTIONS

In support of the Application made by

(a) Insert FULL name
of applicant(s)

(b) Insert "in addition"
if applicable

(a) COWELLS GROUP LIMITED, a South Australian company whose registered office is situate at Eastern Parade, Gillman, State of South Australia, Commonwealth of Australia (hereinafter called "applicant(s)" for a patent (b)

for an invention entitled

(c) Insert TITLE
of invention

(c) "IMPROVEMENTS RELATING TO GUTTER SUSPENSION MEANS"

(d) Insert FULL name
and address of
Inventor(s) (See
Note 1.)

I, We (d) HONG TECK LEE, General Manager of Eastern Parade, Gillman, State of South Australia, Commonwealth of Australia

do solemnly and sincerely declare as follows:

I am/We are the applicant(s)

(or, in the case of an application by a body corporate)

1. I am/We are authorized to make this declaration on behalf of the applicant(s).

2. I am/We are the actual inventor(s) of the invention.

(e) Insert FULL name
and address of
actual inventor(s)

(or, where the applicant(s) is/are not the actual inventor(s))

2. (e) SLAVEK PACAN of 5 Tanarix Avenue, Salisbury East, State of South Australia, Commonwealth of Australia

(f) Insert name in
which applicant(s)
claims title from
actual inventor(s)
(See Note 2.)

is/are the actual inventor(s) of the invention and the facts upon which the applicant(s) is/are entitled to make the application are as follows:—

(f) The Applicant is the assignee of the actual inventor.

(g) Insert PLACE
of signing

Declared at (g) *GILLMAN*

(h) Insert DATE
of signing

Dated (h) *9th November, 1988*

(i) Signature(s)
of declarant(s)

(i) HONG LEE
GENERAL MANAGER

NOTE
No legalisation or
other witness
required

TO: The Commissioner of Patents

(12) PATENT ABSTRACT (11) Document No. AU-A-24977/88
(19) AUSTRALIAN PATENT OFFICE

(54) Title
IMPROVEMENTS RELATING TO GUTTER SUSPENSION MEANS

(51) International Patent Classification(s)
E04D 013/06

(21) Application No. : 24977/88 (22) Application Date : 09.11.87

(23) Filing Date of Complete Specification : 09.11.88

(43) Publication Date : 11.5.89

(60) Related to Provisional(s) : PI5309

(71) Applicant(s)
COWELLS GROUP LIMITED

(72) Inventor(s)
SLAVEK PACAN

(74) Attorney or Agent
COLLISON & CO.

(57) Claim

2. A gutter suspension arrangement in which there is provided the combination of a gutter which has a back wall which has extending along its length a plurality of vertically spaced apart retention means, and a clip which has one rearwardly extending tongue engageable with any one of said retention means and adapted to support the gutter thereby.

8. A gutter suspension arrangement including a gutter of a type including a rear wall, a bottom wall and a front wall formed integrally from sheet metal and providing thereby an upwardly open mouth and being of substantially constant cross-sectional shape throughout its length and being supported with its back wall against a fascia of a building, the suspension being provided by a plurality of support clips interlockably supported from the fascia and interengaging with the back wall of the gutter by having a single tongue rearwardly extending and interlockably engaging with a selected one of a plurality of vertically spaced apart protuberances in the back wall of the gutter.

9. A method of suspending a gutter which comprises locating a gutter of a type including a rear wall, a bottom wall and a front wall, with the said rear wall adjoining a front face of a fascia and providing for support of the gutter with a fall by having a plurality of clips interlockably engaging with the fascia and having a single arm with one rearwardly extending tongue interengaging a respective one of a plurality of vertically spaced apart retention means in the back wall of the gutter.

COMMONWEALTH OF AUSTRALIA

Form 15

Patents Act 1952-1969

COMPLETE SPECIFICATION

(ORIGINAL)

FOR OFFICE USE:

Class

Int. Class

Application Number:
Lodged:

Complete Application No.:
Specification Lodged:
Published:

Priority:

Related art:

TO BE COMPLETED BY APPLICANT

Name of Applicant: COWELLS GROUP LIMITED, a South Australian company

Address of Applicant: Eastern Parade, Gillman, State of South Australia,
Commonwealth of Australia

Actual Inventor: STAVEK PACAN

Address for Service: COLLISON & CO., Patent Attorneys, 117 King William Street, Adelaide, South Australia

Complete Specification for the invention entitled:

"IMPROVEMENTS RELATING TO GUTTER SUSPENSION MEANS"

The following statement is a full description of this invention, including the best method of performing it
known to me/us:

A000725 09/11/88

PATENT, TRADE MARKS
& DESIGNS SUB-OFFICE

- 9 NOV 1988

SOUTH AUSTRALIA

This invention relates to gutter suspension means and in particular to means whereby the height of a gutter can easily be adjusted relative to clip support means.

5 The problem to which this invention is directed is illustrated by reference to Australian Patent No. 464,694 "Gutter Suspension Means" in which there is provided clips having a plurality of rearwardly extending tongues which are engageable with tongue retention means on a back wall of the gutter.

10

One of the problems with the arrangement described in the said existing Australian Patent Specification is that each clip has to have a plurality of tongues rearwardly projecting only one of which will ever be used.

15

Such plurality of tongues are most economically punched from a backing sheet which leaves therefore a plurality of apertures each with a tongue projecting from this.

20 This arrangement provides a complex shape with many small holes which is very susceptible to be a haven for insects and a collector of debris and which provides a large number of potentially jagged edges which will promote rust.

25 According to this invention, there is proposed a gutter which has a back wall which has extending along its length a plurality of vertically spaced apart retention means.

30 In a further form of this invention it can be said to reside in a gutter suspension arrangement in which there is provided the combination of a gutter having a plurality of retention means in vertically spaced alignment within its back wall, and a clip which has one rearwardly extending tongue engageable with any one of said retention means and adapted to support the gutter thereby.

35

In preference, there are a plurality of such clips and in order to provide for an appropriate fall to the gutter, these are located along the length of

the gutter and are variously holding the gutter at one or more of the vertically spaced apart retention means.

In preference, the retention means comprise a rolled shape which is

5 adapted to engage with supporting grip the rearwardly projecting tongue of a clip.

In preference, such a retaining shape is shaped so as to protrude into the gutter area.

10

In preference, the clip has one part which extends around and behind a fascia and another part which extends over the back wall of the gutter and downwardly in front of the back wall of the gutter, and there is provided from such part a rearwardly extending tongue.

15

In preference, the said tongue of the clip is at a bottommost part of said part extending into the gutter and the tongue itself is comprised of a planar part, the planar shape terminating at an outer end by a parallel edge to the gutter wall, the planar shape being such that the tongue

20 edge is higher than the remainder of the tongue.

In a further form the invention accordingly can be said to reside in a gutter suspension arrangement including a gutter of a type including a back wall, a bottom wall and a front wall formed from sheet metal and

25 providing thereby an upwardly open mouth and being of substantially constant cross-sectional shape along its length and being supported with its back wall against a fascia of a building, the suspension being provided by a plurality of support clips interlockably supported from the fascia and each inter-engaging with the back wall of the gutter by having

30 a single tongue rearwardly extending and interlockably engaging with a selected one of a plurality of vertically spaced apart protuberances in the back wall of the gutter.

For a better understanding of the invention it will now be described with

35 the assistance of drawings in which:-

FIG. 1 is a perspective cut-away of an arrangement according to the preferred embodiment in which there is shown the assembly of a gutter held to a fascia by a clip.

5 Referring in detail to the drawing, the gutter 1 has a front wall 2 a bottom wall 3 and a rear wall 4 all of these being formed by sheet steel with an appropriate zinc based protective coating. This shape then provides an upwardly open mouth and the gutter is otherwise shaped so that it is supported against an outer face of a fascia 17.

10

The rear wall 4 is comprised of a plurality of forwardly projecting protuberances shown at 5, 6, 7, 8 and 9.

15 Each of these is rolled so that each extends the full length of the gutter 1 so that the gutter is of constant cross-sectional shape along its length and in each case the shape is such that a top is more arcuate and the bottom almost perpendicular to the plane defined generally by the back wall 4.

20 Each of these retaining means 4 can be appropriately held by tongue 10 which projects rearwardly and upwardly from supporting part 11 of the clip 12.

25 Clip 12 includes an uppermost part 13 and a portion 14 which extends downwardly and then forwardly at 15 so as to lock with respect to rearward projection 16 of fascia 17. It will be understood that there are a plurality of such clips 12 and that these can variously locate with respect to any one of the forward protuberances 5, 6, 7, 8 or 9 so that the gutter is then sequentially supported at varying heights insofar that 30 these retaining means 4 are vertically spaced and extend the full length of the gutter 1.

35 A feature of this arrangement is the elegant simplicity of the clip 12 and the fact that it is now of a constant cross-sectional shape across its width so that its width can be easily varied and therefore can be somewhat broader for arduous applications where it might be expected that rust will be a problem.

Such an increase in width can be achieved at very little cost.

Otherwise, the method shown provides a very acceptable method of supporting a gutter and the invention applies to both the gutter per se

5 and to a suspension arrangement incorporating such a gutter, and also to a method of supporting a gutter which comprises engaging a clip of the type described with respect to any one or more of the retaining means where these are vertically spaced apart along the back wall of a gutter.

C
A
M
P

THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:-

1. A gutter which has a back wall which has extending along its length a plurality of vertically spaced apart retention means.
5
2. A gutter suspension arrangement in which there is provided the combination of a gutter which has a back wall which has extending along its length a plurality of vertically spaced apart retention means, and a clip which has one rearwardly extending tongue engageable with
10 any one of said retention means and adapted to support the gutter thereby.
3. A gutter suspension arrangement as in the last preceding claim further characterised in that there are a plurality of said clips spaced apart along the length of the gutter and supporting the gutter for an appropriate fall in the gutter by having each prospective rearwardly extending tongue engaging for a first clip a first of said retention means, and for a second clip a second of said retention means.
15
- 20 4. A gutter suspension arrangement as in any one of the preceding claims further characterised in that the retention means comprise a rolled shape which is adapted to engage with supporting grip the rearwardly projecting tongue of each respective clip.
- 25 5. A gutter suspension means as in any one of the preceding claims in which the retaining shape is shaped so as to protrude into the gutter area.
- 30 6. A gutter suspension arrangement as in any one of the preceding claims 2, 3 or 4 wherein each clip has one part which extends around and behind a facia and another part which extends over a back wall of the gutter and downwardly in front of the back wall of the gutter and there is provided from such part a rearwardly extending tongue.
35
7. A gutter suspension arrangement as in any one of the preceding claims 2, 3, 4 or 5 wherein the said tongue of each clip is at a bottommost part of said part of the clip extending into the gutter and the

tongue itself is comprised of a planar part, the planar shape terminating at an outer end by a parallel edge to the gutter wall, the planar shape being such that the tongue edge is higher than the remainder of the tongue.

5

8. A gutter suspension arrangement including a gutter of a type including a rear wall, a bottom wall and a front wall formed integrally from sheet metal and providing thereby an upwardly open mouth and being of substantially constant cross-sectional shape throughout its

10 length and being supported with its back wall against a fascia of a building, the suspension being provided by a plurality of support clips interlockably supported from the fascia and interengaging with the back wall of the gutter by having a single tongue rearwardly extending and interlockably engaging with a selected one of a plurality of vertically spaced apart protuberances in the back wall of the gutter.

15

9. A method of suspending a gutter which comprises locating a gutter of a type including a rear wall, a bottom wall and a front wall, with the said rear wall adjoining a front face of a fascia and providing for support of the gutter with a fall by having a plurality of clips interlockably engaging with the fascia and having a single arm with one rearwardly extending tongue interengaging a respective one of a plurality of vertically spaced apart retention means in the back wall of the gutter.

25

10. A gutter suspension arrangement substantially as described in the specification with reference to and as illustrated by the accompanying drawing.

30

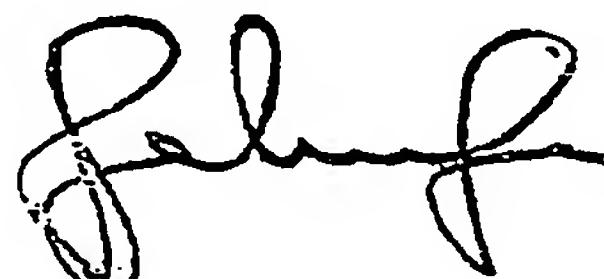
11. A method of suspension of gutter substantially as described in the specification with reference to and as illustrated by the accompanying drawing.

Dated this 10th day of November 1988.

35

COWELLS GROUP
LIMITED,
By their Patent Attorneys,
COLLISON & CO.

40



DRAWINGS

24 977/88

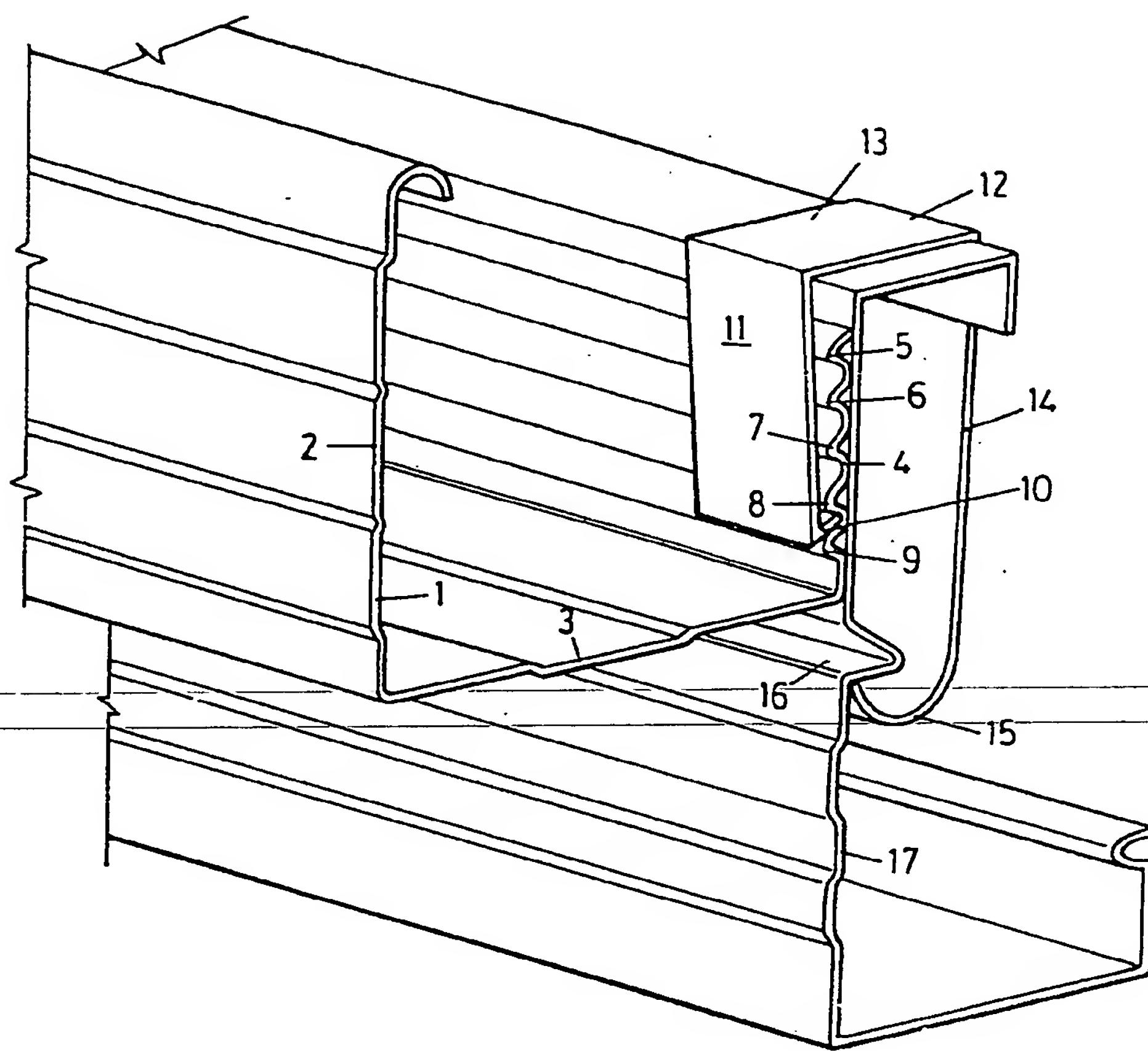


FIG I

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